

OPERATOR'S MANUAL



M16A1 RIFLE

INTRODUCTION TO YOUR WEAPON	PAGES 2-10
AMMUNITION	9
DISASSEMBLY	11-19
LUBRICATION	20-23
ASSEMBLY	24-29
MAGAZINE	30-31
PMCS	32-33
OPERATION	34-47
TROUBLESHOOTING	48-55

TM 9-1005-249-10

C I

HEADQUARTERS

DEPARTMENT OF THE ARMY

WASHINGTON, DC 20 March 1979

CHANGE }

NO. 1 }

OPERATOR'S MANUAL M16A1 RIFLE

TM 9-1005-249-10, April 1977, is changed as follows:

WARNING

DANGEROUS PROCEDURES

- Be sure the cam pin is installed in the bolt group. If it isn't, your rifle can still fire, but it could possibly explode, causing you harm.
- If you're using the blank ammo attachment, don't use any other ammo except the blank round, M200.
- DO NOT exchange or switch bolt assemblies from one M16A1 to another...It could cause damage to both you and the rifle.
- If your rifle stops firing with a live round in the chamber of a hot barrel, remove the round fast. However, during training, if you cannot remove it within 10 seconds, wait 15 minutes with the rifle pointing in a safe direction. This way you won't get hurt by a possible ammo cook-off, which could happen 10 seconds after contact with a hot chamber.
- Use only authorized ammo that is manufactured to U.S. specs.

- If your bolt fails to unlock and you try to free it by banging the butt stock on the ground, keep yourself clear of the muzzle.
- If there's water in the barrel, don't fire the rifle. It could explode.
- If a noticeable difference in sound or recoil is experienced, STOP FIRING. Either condition could indicate an incomplete propellant burn and a bullet still in the bore. Retract bolt slowly and remove fired cartridge case. Clear weapon and check for unburned powder grains in the receiver or bore and for a bullet in the bore. Remove unburned propellant or bullet from bore before resuming firing, or barrel could explode. If bullet is lodged in bore, turn in rifle to direct support maintenance.

IF YOU GO BY ALL THE INSTRUCTIONS IN THIS BOOK, AND PERFORM PREVENTIVE MAINTENANCE (PM), YOUR M16A1 RIFLE WILL SHOOT, AND SHOOT AND SHOOT. IF YOU'VE DONE YOUR PART AND IT STOPS SHOOTING, TAKE YOUR M16A1 RIFLE TO YOUR SERGEANT. HE HAS THE ANSWERS.



FACTS ABOUT

The M16A1 rifle system consists of a rifle, one magazine and a sling. It is a lightweight, gas operated, air cooled, magazine fed, shoulder fired weapon that can be fired either automatic or semi-automatic.

Other features:

- The barrel assembly has an adjustable sight and a flash suppressor.
- Upper and lower receivers are easily opened for cleaning and inspection.
- Bolt group and barrel extension designed with locking lugs that lock bolt group to barrel extension.
- An aluminum receiver reduces the weight of the rifle.
- Some rifles are equipped with the Low Light Level Sight to increase effectiveness during periods of limited visibility.

YOUR RIFLE

Weight:

w/20 rd mag 3.5 Kg. (7.6 lb.)

w/30 rd mag 3.6 Kg. (7.9 lb.)

Max effective rate of fire:

Semi: 45-65 rds per min

Auto: 150-200 rds per min

Max effective range:

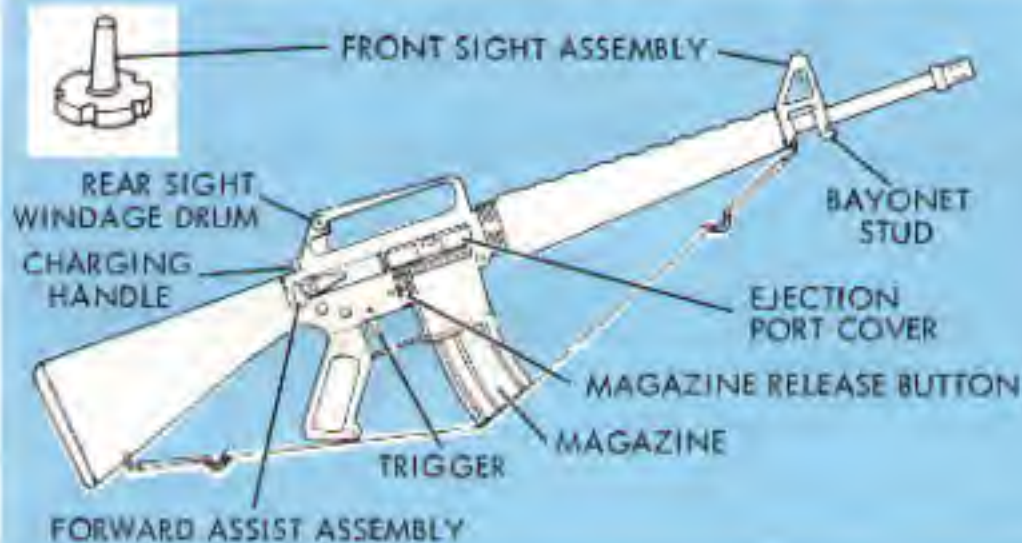
460 meters

Max range:

2653 meters



RIFLE PARTS AND



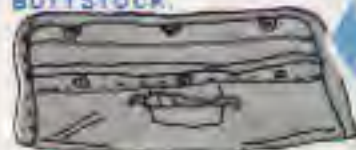
WHERE THEY ARE



ITEMS TROOP INSTALLED OR AUTHORIZED

Items which, at the discretion of the unit CO, may accompany the M16A1 rifle but are not subject to be turned in with the rifle

FOR RIFLE WITHOUT STORAGE BUTTSTOCK.



SMALL ARMS MAINTENANCE
EQUIPMENT CASE 3465-00-781-9564



MAGAZINE ASSEMBLY
1005-00-056-7237 (20 RD)
(ISSUED UNTIL STOCK
EXHAUSTED)
1005-00-321-5004 (30 RD)



BUTTSTOCK STORAGE ONLY



SMALL ARMS ACCESSORIES CASE
1005-00-403-5604



AUXILIARY EQUIPMENT



TOP SUNG ADAPTER KIT



RIFLE BIPODS M16
1005-00-7832-0576

Get your MUZZLE CAP
5340-00-8803-7506
MAG BAG
1005-00-052 8842 (20 RD)
1005-00-193 8306 (30 RD)



from your
UNIT SUPPLY



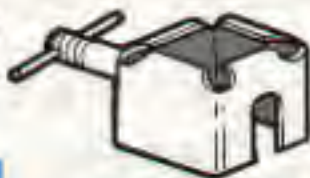
CARRYING CASE
1005-00-898-7430

SCABBARD
M8A1-1095-00-508-0339



M7 BAYONET
1005-00-073 9238

M15A2 BLANK FIRING ATTACHMENT (BFA)



WARNING Use ONLY blank M200 with the BFA.

1005-00-118-6192



1. Unscrew and slide all the way back

2. Hook behind first groove of flash suppressor



CAUTION: Do not use tools to tighten attachment, **HANDS ONLY**

3. Slide into flash suppressor and **HAND TIGHTEN**



NOTE: After 50 rounds, check to see if it is still tight. Make sure to clean carbon buildup after each use



AMMUNITION

WARNING

DO NOT FIRE . . .

- Seriously corroded ammunition
- Dented cartridges
- Cartridges with loose bullets
- Cartridges exposed to extreme heat (135°) until they have cooled

Use only authorized ammo that is manufactured to U.S. specs.



Ball,
M193



Tracer
M196

Red
Tip



Dummy,
M199

Violet
Tip



Blank,
M200

KEEP DRY, CLEAN, AND FREE OF CRUD
YOUR LIFE DEPENDS ON IT!

USE OF SELECTOR LEVER



safe

Rifle will not fire. Selector lever cannot be on safe unless rifle is cocked. Always place in SAFE, when loading and unloading



semi-automatic

Rifle will fire one round each time the trigger is pulled



automatic

Rifle will continue to fire until the magazine is empty or the trigger is released

CLEAR YOUR RIFLE

1. Place selector switch in **SAFE** if weapon is not cocked. Lever cannot be moved toward **SAFE**.



3. If lock bolt open, pull charging handle backward until bottom of bolt catch above bolt is engaged. Lock catch will move forward as you lower it before place in **SAFE**.

PULL
CHARGING HANDLE



BOLT CATCH

2. Eject all rounds and 2 rounds to insure there aren't rounds in the weapon.



2. Remove magazine.



4. With selector lever pointing toward **SAFE**, allow bolt to go forward by pressing lower portion of bolt catch.



BOLT CATCH

DISASSEMBLY

first

CLEAR YOUR RIFLE



2 Remove sling

NOTE ➡

Remove & clean
only if dirt &
corrosion can be
seen through vent
holes



3 Remove handguards

Push take down
pin as far as
it goes



4 Pivot upper receiver
from lower receiver



5 Push receiver
pivot pin



6 Separate upper and
lower receivers



7 Pull back
charging handle
and bolt carrier



8 Remove
bolt carrier
and bolt



PULL BACK
AND DOWN

9 Remove charging
handle

DISASSEMBLY *cont.*



10 Remove firing pin retaining pin



11 Put bolt assembly in lock position



12 Drop firing pin out rear of bolt carrier



13 Remove bolt cam pin



14 Remove bolt assembly from carrier

DISASSEMBLE STEPS 15 THRU 18 ONLY WHEN DIRTY OR DAMAGED



NOTE
Press tip of extractor to check spring function.

See your **ARMORER**

Do not damage tip of firing pin.

DON'T SEPARATE SPRING FROM EXTRACTOR



16 Remove extractor and spring



17 Press in buffer, depress retainer and release buffer



18 Remove buffer and spring

HALT

NO FURTHER
DISASSEMBLY
ALLOWED

CLEAN...INSPECT...LUBE

With the rifle disassembled, thoroughly clean, inspect and lube, so you have a reliable weapon you can always depend on.

After firing, clean your weapon for 3 consecutive days with Rifle Bore Cleaner (RBC). Wipe dry and lube according to lubrication instructions.



Cleaning materials: swabs, pipe cleaners and RBC are expendable items that are available from Company Supply.

If any parts are missing or defective see your ARMORER.

THOROUGH CLEANING

upper receiver



CLEAN WITH RBC

- All Areas of Powder Fouling, Corrosion, Dirt & RUST

- Bore & Chamber

- Locking Lugs

- Gas Tube

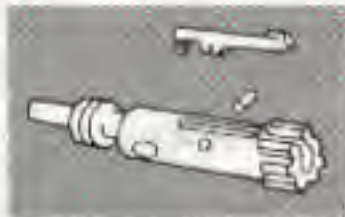


Use a worn bore brush to get outside surface of protruding gas tube (get sides and bottom from bottom of receiver)

THOROUGH CLEANING

bolt carrier group

- Outer & Inner Surfaces of Bolt Carrier
- Carrier Key
- Firing Pin Recess and Firing Pin
- Firing Pin Hole (Use Pipe Cleaner There)
- Carbon Deposits & Dirt from Locking Lugs
- Areas Behind Bolt Ring and Under Lip of Extractor



THOROUGH CLEANING

lower receiver group

- All Areas of Powder Fouling, Corrosion and Dirt
- Wipe Dirt from Trigger Mechanism
- Clean Buffer and Inside Lower Receiver Extension

CAUTION

Do not use wire brush or any type of abrasive material to clean aluminum surfaces.



LUBE GUIDE

Under all but the coldest arctic conditions, LSA is the lubricant to use on your rifle. Remember to remove excessive oil from the bore before firing.

LSA—Lubricating oil, semifluid weapons

BETWEEN 0° F AND
-35° F EITHER
LSA OR LAW

LAW—Lubricating oil, Arctic weapons

Lightly Lube - A film of oil barely visible to the eye

Generously Lube - Heavy enough so that it can be spread with the finger

LUBRICATING

upper receiver



LIGHTLY LUBE

BORE & CHAMBER, OUTER SURFACES OF BARREL AND FRONT SIGHT, SURFACES UNDER HANDGUARD, DEPRESS FRONT SIGHT DETENT SEVERAL TIMES TO WORK LUBE INTO THE SPRING



LUBRICATING

bolt carrier group

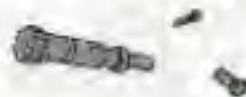
CAUTION

Lightly lube firing pin and firing pin recess in bolt



GENEROUSLY LUBE OUTSIDE OF THESE PARTS

MAKE CERTAIN TO GET CAM PIN AREA, PISTON RINGS, AND OUTSIDE OF THE BOLT BODY



DRY WITH PIPE CLEANER,
THEN PLACE ONE DROP LSA



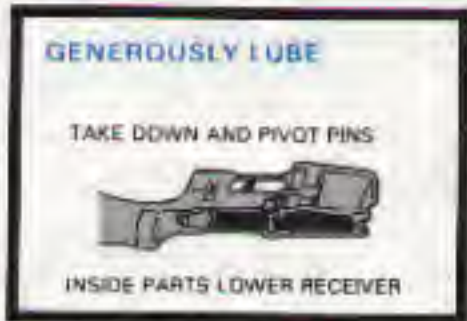
CARRIER KEY

LIGHTLY LUBE CHARGING HANDLE,
INNER AND OUTER SURFACES OF
BOLT CARRIER. GENEROUSLY
LUBE SLIDE AND CAM PIN AREA OF BOLT



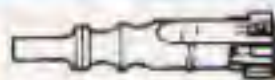
LUBRICATING

lower receiver group



INSPECT-before assembly

WARNING DO NOT interchange bolts between rifles



BOLT - Cracks or fractures, especially in the cam pin hole area. Bolts that contain pins extending into the firing pin hole need replacing



FIRING PIN RETAINING PIN - Bent, busted, badly worn



CAM PIN - Cracked, chipped or missing



EXTRACTOR AND EXTRACTOR SPRING - Check extractor for chipped or broken edges in the area of the lip that engages the cartridge rim.

FIRING PIN - Bent, cracked or blunted end

IF PARTS ARE MISSING OR DEFECTIVE, SEE YOUR ARMORER

ASSEMBLY



1 Insert spring and buffer



New extractor has a silicone insert w/ spring. Be sure not to lose it.



2 Insert extractor and spring

If the spring comes loose, put the large end of spring in the extractor and seat.



3 Push in extractor pin

WARNING

Don't switch bolts between rifles



4 Slide bolt into carrier



ETAGGER RING (KAPS TO STOP GAS LOSS)

ASSEMBLY *cont.*



5 Replace bolt cam pin



GIVE CAM PIN A 7/8
TURN AFTER ASSEMBLY



6 Drop in and seat



7 Pull bolt back



8 Replace retaining pin

← **NOTE**
Firing pin should not fall out
when bolt carrier group is
turned upside down



9 Engage, then push charging handle part way



10 Slide in bolt carrier group



11 Push in charging handle and bolt carrier group together



12 Join upper and lower receivers

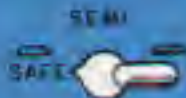


13 Engage receiver pivot pin

ASSEMBLY cont.

CAUTION

Never put finger inside the
on/off pin until before
locking upper receiver.



14 Close upper and
lower receiver
groups. Push in
takedown pin



15 PUT HANDGUARDS IN PLACE



CHECK FOR FULL
ENGAGEMENT

RELEASE
SLIP RING



16 Snap on sling

DID YOU INSTALL EVERYTHING?

- ***extractor & spring***
- ***extractor pin***
- ***bolt***
- ***cam pin***
- ***firing pin***
- ***retaining pin***

EVERYTHING WILL
WORK SLICK IF YOU
HAVE ASSEMBLED
ALL THE PARTS
CORRECTLY

CHECK THE
selector lever
BY PERFORMING THE
***FUNCTIONAL
CHECK***

SEE PAGE 33

MAGAZINE DISASSEMBLY

20 RD MAG

PUSH DOWN ON
INTERNAL SPRING AND
SLIDE OUT

Release base catch



30 RD MAG

PITY UP, PUSH OUT

Release base catch



Remove base



Jiggle spring and
follower to remove



NOTE: Do not remove
follower from
spring

MAGAZINE ASSEMBLY

IF THE SPRING COMES
LOOSE FROM THE
FOLLOWER, TURN IN
THE RELEASE SCREW
UNTIL IT IS TIGHT.

CLEAN & LUBE
Wipe dirt from
tube, spring, and
follower, then
lightly lube spring.

Jiggle spring and
follower to install.



Slide the base
under all four tabs.



MAKE SURE
PRINTING IS
ON THE OUTSIDE

PMCS* *before operation and..*



1 Remove excessive oil



Retract bolt to assure free movement between bolt carrier and gas tube

3 Perform functional check to assure selector lever works properly

next page

then back to step 4



Mag secure?



Proper tension?

* Preventive Maintenance Checks and Services

FUNCTIONAL CHECK

(REMOVE MAG CHECK CHAMBER)

SELECTOR LEVER ON:



safe

Pull charging handle to rear and release. Plac selector in safe. Pull trigger. Hammer should not fall.



semi

Place selector in semi. Pull trigger and hold to rear. Hammer should fall. Pull charging

handle to rear and release. Release trigger and pull again. Hammer should fall.



auto

Place selector in auto. Pull charging handle to rear and release. Pull trigger and hold to rear. Hammer should fall. Pull

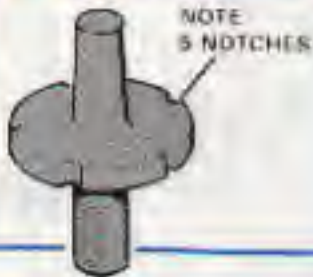
charging handle to rear and release. Release trigger and pull again. Hammer should not fall.

STANDARD DAYLIGHT SIGHT

REAR SIGHT



FRONT SIGHT

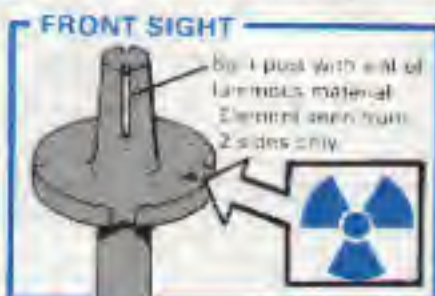


REAR SIGHT Has two apertures for range
Unmarked aperture: 0 - 300 meter range
1 meter aperture: 300 - 450 meter range

See page 39 for sight usage

LOW LIGHT LEVEL SIGHT SYSTEM (Promethium Sight)

NOTE: Not every rifle will have this sight



PURPOSE

Used during limited visibility. A weapon equipped with the PROMETHIUM front sight has only 4 "notches" of elevation per revolution, whereas the original sight had 5. The 7 mm rear sight aperture is for night firing and limited visibility. The 2 mm aperture is used to zero the weapon and engage targets to 400 M under normal conditions (see page 40 for build-up).

CAUTION: The front sight post contains a small glass vial of radioactive Promethium-147. Take care not to bump, abuse, tamper or alter the post in any manner. DO NOT block or set-up the front sight.

OPERATION - loading and



1 With hammer cocked, place selector lever in SAFE



2 Open bolt and inspect chamber. Clear?



3 Push downward until magazine (and) engages (and hold magazine)



4 Tap upward to make sure it's seated right

MAGAZINE MAY BE LOADED WITH BOLT ASSEMBLY OPEN OR CLOSED

chambering a round

BOLT ASSEMBLY OPEN



BOLT ASSEMBLY CLOSED



BATTLESIGHT ZERO

TO ZERO THE RIFLE, YOU MUST HAVE THE FRONT SIGHT (ELEVATION) AND THE REAR SIGHT (WINDAGE) ADJUSTED SO THAT IT CAN HIT YOUR POINT OF AIM AT A GIVEN RANGE.



NOTE

In order to battlesight zero you adjust your sights so you can hit an aiming point at 250 meters. Zeroing can also be accomplished on a 25 meter range by adjusting the sights so that the bullet will strike 2.4 centimeters below the point of aim. If M16A1 has "promethium" sight and you can't see the vial after zeroing, turn front sight post one click down for use during periods of limited visibility.

SIGHT ADJUSTMENT

LOW LIGHT & STANDARD



WINDAGE ADJUST To adjust windage, depress drum and rotate drum to desired direction. To move point of impact to right, turn drum clockwise in direction of arrow and letter R. To move left, move drum counterclockwise. Each graduation (tooth) moves the point of impact of bullet as indicated in chart.



ELEVATION ADJUST To adjust elevation, depress detent, rotate post. To raise strike of bullet, rotate post in the direction of arrow marked up. Reverse the direction of rotation to lower strike of bullet. Each graduation (notch) moves the point of impact of bullet as indicated in chart.

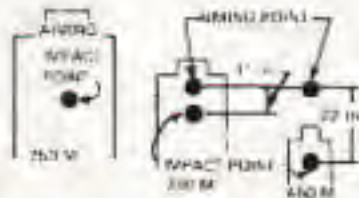
IMPACT		DISTANCE
STANDARD	LOW LIGHT LEVEL	
1 Grad = 1/16 in.	1 Grad = 1/16 in.	1 Grad = 1/16 in.
7 Grad = 7/16 in.	7 Grad = 7/16 in.	7 Grad = 7/16 in.
1 Grad = 1/16 in.	1 Grad = 1/16 in.	1 Grad = 1/16 in.

USING LOW LIGHT LEVEL (PROMETHIUM) SIGHT SYSTEM

daylight firing



Use aperture marked L. Effective range is 250 meters (original battle sight zero beyond center "Hold-Off" bearing always directed point of impact must be used. Aim about 11 in. at 250 meters, 22 in. at 400 meters. To become well versed in use, practice "Hold-Off".



night and limited visibility



Use unmarked (7 mm) aperture. Obtain good sight picture using daylight mount procedure. After target detection, obtain good sight alignment by centering optical luminous portion of front sight next within 7 mm aperture on target, and fire. Under good

light conditions, front sight will disappear, but you have determined whether you are looking through, above, or to the side of rear sight aperture. Produce peering stick against shoulder and looking through rear aperture.

CARE & CLEANING of PROMETHIUM SIGHT

handling and care

- The front post has a small glass vial containing radioactive Promethium 147.
- Take care when handling, not to bump the front sight post. DO NOT abuse, tamper or alter the post in any manner.
- Frequently check the sight post for damage. If damage is evident or suspected, have it checked by your unit armorer.



cleaning of front sight post

CAUTION: DO NOT use a wire brush to clean the sight.

Clean with toothbrush, bore swabs and Rifle Bore Cleaner (RBC), then dry.

IMMEDIATE ACTION

If your rifle stops firing before you do... **S.P.O.R.T.S.**
S.P.O.R.T.S. is an acronym* to help you remember the following actions — **Slap, Pull, Observe, Release, Tap, Shoot.**

*ac-ro-nym: a word formed from the initial letters of each word in a group of words that convey a meaning or action.



1 **SLAP** upward on magazine to make sure it's properly seated.



2 **PULL** charging handle all the way back. **OBSERVE** ejection of case or cartridge. Eyeball chamber and check for obstruction.



3 If cartridge or case is ejected or chamber is clear. **RELEASE** charging handle to load new round (Don't ride the charging handle)



4 **TAP** forward assist



5 Now **SHOOT** if it won't fire, look for trouble and apply remedial action

REMEDIAL ACTION

WARNING

If your rifle stops firing with a live round in the chamber of a hot barrel, remove the round fast. However, during training, if you cannot remove it within 10 seconds, wait 15 minutes with the rifle pointing in a safe direction. This way you won't get hurt by a possible ammo cook-off, which could happen 10 seconds after contact with a hot chamber.

If your rifle fails to fire after performing steps 1 thru 5, check again for jammed cartridge case.



If a cartridge case is in the chamber, tap out with a cleaning rod.

IF YOUR RIFLE STILL FAILS TO FIRE, CHECK TROUBLESHOOTING

PROJECTILE LODGED IN BORE

WARNING

If an audible "POP" or reduced RECOIL is experienced during firing, immediately **CEASE FIRE**, remove the magazine (1), lock the bolt to the rear (2), and place the selector lever on the "SAFE" position (3). Visually inspect and/or insert a cleaning rod into the bore to insure there is not a projectile lodged in the bore (4).

DO NOT APPLY IMMEDIATE ACTION.



If a projectile is lodged in the barrel of the weapon, **DO NOT** attempt to remove it. Turn the weapon in to the armorer.

LIMITED PM CLEANING

CLEAR YOUR RIFLE



- 1 Look for fouling in bore and chamber



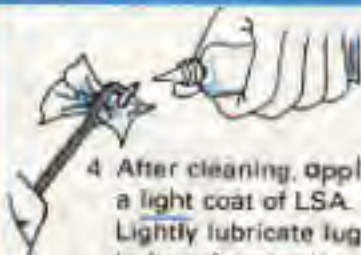
- 2 Remove bolt carrier group and clean carbon and oil from firing pin and all surfaces of bolt/bolt carrier with dry swabs. Clean

firing pin hole and bolt carrier key with pipe cleaner. Apply light coating of LSA paying special attention to slide and cam pin area



- 3 "Swab out" (from chamber to muzzle)

CAUTION: Don't bend or flex cleaning rod. Oh yeah, make sure swab goes clear through flash suppressor



- 4 After cleaning, apply a light coat of LSA. Lightly lubricate lugs in barrel extension

UNUSUAL CONDITIONS

EXTREME COLD

- Clean and lubricate rifle with LSAW. Keep it moisture free.
- Operate controls thru their entire range at intervals, to keep them from freezing up.
- When your rifle is not being used and kept outside, protect it with a cover.



HOT CLIMATES

- Inspect rifle and bolt more frequently, especially the hidden surfaces of bolt carrier group, forward assist assembly and lower receiver components. Make certain they are lubricated using LSA.
- When handling, make certain to wipe dry, as moisture could cause corrosion. After drying, lubricate with LSA.

HOT, DRY CLIMATES

Clean and oil rifle more frequently with LSA.

DUSTY AND SANDY AREAS

- Clean and lubricate your rifle more frequently.
- Keep sand out of ports when inspecting, lubricating, or assembling rifle. Apply only a very light amount of lubrication on outside of rifle.
- Use magazine bag and muzzle cap for dust and sand protection.

CAUTION: Do not use magazine bag and muzzle cap on stored rifles.

AFTER FORDING

WARNING DO NOT FIRE RIFLE IF
WATER IS PRESENT IN BARREL

HERE'S WHAT YOU DO! . . .

. . . AFTER YOU REMOVE THE CAP



POINT THE
MUZZLE
DOWN



PULL CHARGING
HANDLE 2 TO 3
INCHES REARWARD
AND ALLOW WATER
TO DRAIN





RELEASE CHARGING
HANDLE AND
STRIKE FORWARD
ASSIST TO SEAT
ROUND AND LOCK
BOLT



CLEAR THE DRAIN HOLE WITH
A PIPE CLEANER AND
DRAIN



TROUBLESHOOTING

PROBLEM	CHECK FOR	WHAT TO DO
WON'T FIRE	Selector lever on SAFE	Put it on SEMI or AUTO
	Improper assembly of firing pin	Assemble correctly 
	Too much oil in firing pin recess	Wipe off
	Defective ammo	Remove and discard
BOLT WON'T UNLOCK	Too much carbon on firing pin	Clean 
	Dirty or burred bolt	See your NCO or your unit ARMORER.

TROUBLESHOOTING

PROBLEM	CHECK FOR	WHAT TO DO
WON'T EXTRACT	Broken extractor spring	See your ARMORER
	Dirty or corroded ammo	Remove. Push out stuck round with cleaning rod
	Carbon in chamber Fouling or carbon in extractor recess or lip	Clean chamber Clean
WON'T FEED	Dirty or corroded ammo	Clean
	Dirty magazine	Clean
	Defective magazine	Replace
	Too many rounds in magazine	Take out excess
	Restricted buffer assembly action	Take out the buffer and spring, and clean



TROUBLESHOOTING

PROBLEM	CHECK FOR	WHAT TO DO
WON'T FEED	Magazine not fully seated	Adjust magazine catch
		 <p>PRESS BUTTON ON RIGHT SIDE</p> <p>TURN CATCH ON OPPOSITE SIDE</p>
	Defective magazine	Replace
DOUBLE FEED	Defective magazine	Replace

TROUBLESHOOTING

WON'T CHAMBER

Dirty or corroded
ammo
Damaged ammo
Carbon in chamber

Clean

Replace
Clean



WON'T LOCK

Dirt, corrosion, or
carbon buildup in
barrel locking lugs

Frozen extractor

Restricted buffer
assembly

Restricted movement
of bolt carrier
group

Clean lugs


Remove and clean

Remove and clean

Remove, clean, and lube
(When putting bolt back in,
make sure gas tube fits into
carrier key and moves freely)



TROUBLESHOOTING

PROBLEM	CHECK FOR	WHAT TO DO
SHORT RECOIL	Gaps in bolt rings (not staggered) Carbon or dirt in carrier key or on outside of gas tube	Stagger ring gaps Clean 
BOLT FAILS TO LOCK AFTER LAST ROUND	Dirty or corroded bolt latch Faulty magazine	Clean Replace
SELECTOR LEVER BINDS	Needs oil	Lubricate with LSA

TROUBLESHOOTING

PROBLEM

BOLT CARRIER
"HUNG UP"

CHECK FOR

Round jammed be-
tween bolt and
charging handle

WHAT TO DO

- 1 Remove magazine
- 2 Hold charging handle back and bang rifle butt on ground.
KEEP CLEAR OF MUZZLE



CAUTION After round is removed, bolt is under tension

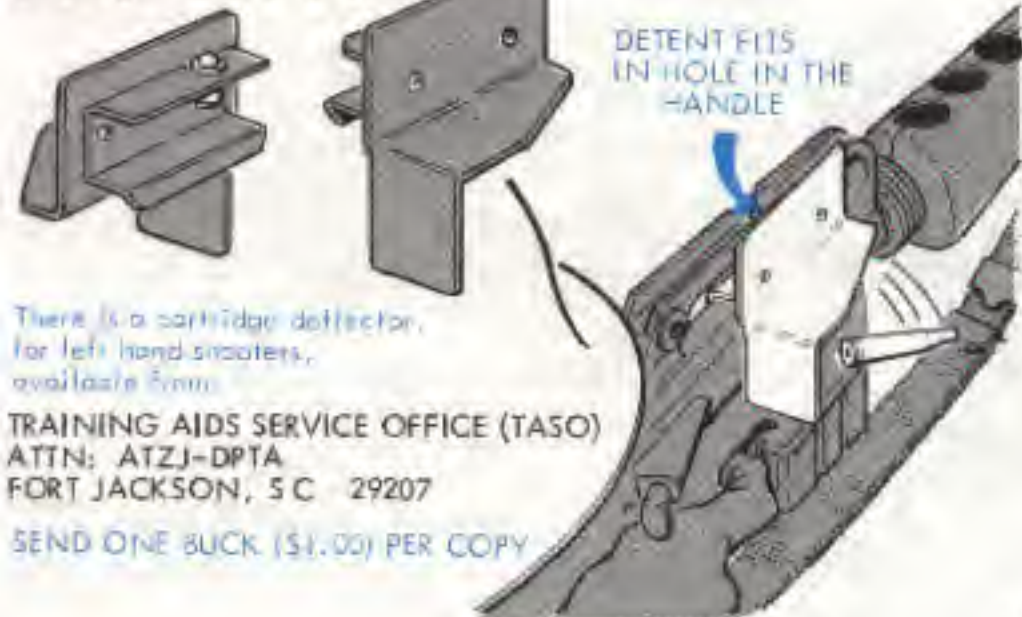
- 3 While bolt is held to rear, push charging handle forward. Round should fall through magazine well



TROUBLESHOOTING

PROBLEM	CHECK FOR	WHAT TO DO
CAN'T SEE PROMETHIUM SIGHT POST	Check for alignment of luminous elements Luminous element dirty Luminous element broken or missing	Rotate front sight post up or down one click Clean with dry cleaning solvent Turn in to ARMORER

FOR LEFTYS'



SARGE'S INSPECTION

Sarge'll gig ya if the following items are not clean. . . .

BOLT,
SIGHTS,
RECEIVER,
CHARGING HANDLE,
HANDGUARDS,
GAS TUBE & PORTS,
STOCK DRAIN HOLE,
BORE & FLASH SUPPRESSOR,
MAGAZINE CATCH &
MAGAZINE WELL

He'll also check the overall condition of the
SIGHTS, BIPOD, STOCK, & HANDGUARDS

So, be prepared, keep it clean and lubed.



DID WE GOOF?
DO YOU KNOW A BETTER WAY?
DON'T KEEP THOSE GRIPEs TO YOURSELF
WE'D LIKE TO HAVE YOUR IDEAS

USE D.A. FORM
1028 OR WHATEVER
YOU HAVE HANDY

write

COMMANDER
US ARMY ARMAMENT MATERIEL
READINESS COMMAND
ATTN: DRSAR-MAS
ROCK ISLAND, IL 61201